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(71) Applicant: MITSUI PETROCHEM IND LTD

(72) Inventor: YUKIMUNE TAKAHITO
HARA YASUHIRO

(74) Representative:

(54) PRODUCTION OF TAXANE TYPE DITERPENE

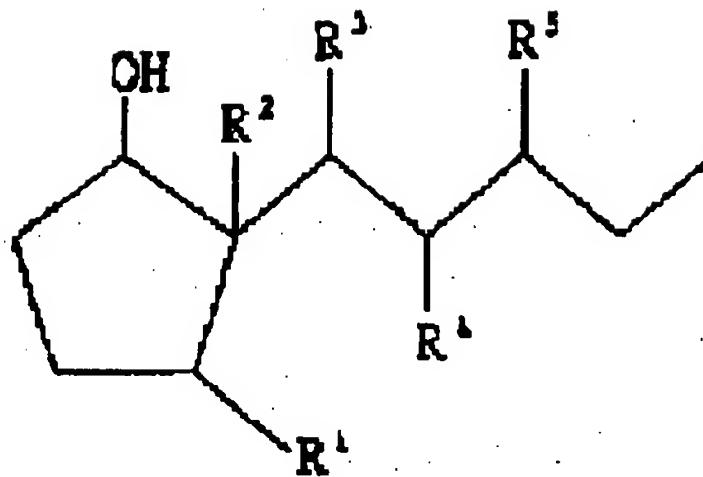
(57) Abstract:

PURPOSE: To industrially and advantageously obtain the subject compound useful as a therapeutic agent for ovarian carcinoma, mastocarcinoma, lung cancer, etc., by culturing a cell or a tissue of a plant capable of producing a taxane type terpene in the presence of a specific jasmonic acid and recovering a formed product from the culture mixture.

CONSTITUTION: A cell or a tissue of a plant (e.g. *Taxus baccata*) capable of producing taxane type terpene is cultured in the presence of a jasmonic acid of formula I {R1 is a 1-4C alkyl, a group of formula II [R6 is OH, an OM (M is an alkali metal, an alkaline earth metal or NH4), an NHR7 (R7 is a 1-4C acyl, a 1-4C alkyl or amino acid) or an OR8 (R8 is a 1-4C alkyl or a hydrocarbon residue; (n) is an integer of 1-7]; R2 to R5 are each H or R2 and R3, R3 and R4 or R4 and R5 may form a double bond together; the five-membered ring may be further substituted with a hydroxyl group and may form a double bond between adjoining carbon atoms} and a

formed product is recovered to give
the abjective taxane type terpene (e.g.
(axol).

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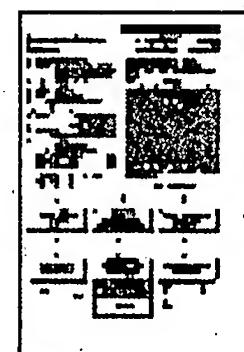


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HARA YASUHIRO;**[View Image](#)

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? Assignee: **IMITSU PETROCHEM IND LTD**[News, Profiles, Stocks and More about this company](#)? Published / Filed: **Nov. 28, 1995 / May 18, 1994**? Application Number: **JP1994000104212**? IPC Code: **C12P 17/02; C12P 17/02;**? Priority Number: **May 18, 1994 JP1994000104212**

? Abstract:

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? Designated Country: **CA CN EP KR US DE FR GB IT NL**

? Family:

PDF	Publication	Pub. Date	Filed	Title
<input type="checkbox"/>	WO9514103A1	May 26, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
<input type="checkbox"/>	US20020012976A1	Jan. 31, 2002	April 28, 1999	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE

	US6403343	June 11, 2002		
☒	<u>US6403343</u>	June 11, 2002	April 28, 1999	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
☒	<u>US5968789</u>	Oct. 19, 1999	Feb. 28, 1997	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
☒	<u>US5637484</u>	June 10, 1997	July 14, 1995	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	<u>KR0172606B1</u>	Feb. 1, 1999	July 5, 1995	PROCESS FOR PRODUCING TAXANE DITERPENE
	<u>KR0169081B1</u>	Jan. 15, 1999	June 18, 1998	METHOD OF HARVESTING CULTURED CELLS CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>KR0169080B1</u>	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
	<u>KR0169079B1</u>	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
	<u>JP8116981A2</u>	May 14, 1996	Oct. 18, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP8056681A2</u>	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP8056680A2</u>	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP8033490A2</u>	Feb. 6, 1996	March 7, 1995	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP8009983A2</u>	Jan. 16, 1996	June 28, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP7308197A2</u>	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	<u>JP7308196A2</u>	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	<u>JP7135967A2</u>	May 30, 1995	Nov. 15, 1993	PREPARATION OF CULTURED CELL HAVING HIGH PRODUCTIVITY OF TAXANE-TYPE DITERPENE
	<u>JP2967034B2</u>	Oct. 25, 1999		
☒	<u>EP1063300A3</u>	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
☒	<u>EP1063300A2</u>	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
☒	<u>EP1063299A3</u>	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
☒	<u>EP1063299A2</u>	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
☒	<u>EP1054065B1</u>	July 31, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate

<input checked="" type="checkbox"/> <u>EP1054065A1</u>	Nov. 22, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
<input checked="" type="checkbox"/> <u>EP0683232B1</u>	Feb. 14, 2001	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
<u>EP0683232A4</u>	Nov. 29, 1995	Nov. 9, 1994	
<input checked="" type="checkbox"/> <u>EP0683232A1</u>	Nov. 22, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
<u>DE69431135C0</u>	Sept. 5, 2002	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-TYP DITERPEN UND METHODE ZUR GEWINNUNG VON KULTURZELLEN DIE TAXAN-TYP DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
<u>DE69426692T2</u>	June 21, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
<u>DE69426692C0</u>	March 22, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
<u>CN1251391A</u>	April 26, 2000	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTIVE CULTURE CELLS OF TAXIANES DITERPENE
<u>CN1248630A</u>	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
<u>CN1248629A</u>	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
<u>CN1119028A</u>	March 20, 1996	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
<u>CN1083012B</u>	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXANES DITERPENE
<u>CN1083011B</u>	April 17, 2002	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTION CULTURE CELLS OF TAXANES DITERPENE
<u>CN1083010B</u>	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXUES ALKANE DITERPENE
<u>CN1058054B</u>	Nov. 1, 2000	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
<u>CA2153986AA</u>	May 26, 1995	Nov. 9, 1994	A METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE